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DATE MAILED: 11/10/2005

APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/978,425	10/15/2001		Joseph P. Odenwalder	020034	5005
23696	7590	11/10/2005		EXAMINER	
QUALCON	•	nD	YANG, LINA		
5775 MOREHOUSE DR. SAN DIEGO, CA 92121				ART UNIT	PAPER NUMBER
				2665	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
·	09/978,425	ODENWALDER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Lina Yang	2665			
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status	1				
1) Responsive to communication(s) filed on 12 S	eptember 2005.				
	s action is non-final.				
3) Since this application is in condition for allowa					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>6.7.9-17 and 19-21</u> is/are pending in	the application				
4a) Of the above claim(s) is/are withdra		·			
5) Claim(s) is/are allowed.					
6) Claim(s) 6-7, 9-17, 19-21 is/are rejected.	-				
7) Claim(s) is/are objected to.	·				
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) ☐ The specification is objected to by the Examine	ar				
10) The drawing(s) filed on is/are: a) acc		Examiner.			
Applicant may not request that any objection to the	•				
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	nriority under 35 H.S.C. & 119(a))-(d) or (f)			
a) ☐ All b) ☐ Some * c) ☐ None of:	i priority direct 55 5.5.5. § 115(a)	, (d) 01 (i).			
1. Certified copies of the priority document	s have been received.				
2. Certified copies of the priority document		on No			
3. Copies of the certified copies of the prio					
application from the International Burea	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
	•				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	6) Other:	atent Application (FTO-192)			

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed 9/12/2005 have been fully considered but they are not persuasive. The following are the responses to the applicant's arguments on page 10.
- (1) Das fails to teach determining a position of the identity within the received first control channel, selecting a second control channel is accordance with said determined position.

-In reply, Das teaches determining a position of the identity within the received first control channel, selecting a second control channel is accordance with said determined position (fig. 1 clearly shows the position of the identity within the received first control channel, paragraph [0016]).

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 6, 11-12, 14 and 21are rejected under 35 U.S.C. 102(e) as being anticipated by Das et al. (U.S. Patent Application Publication No. 20020167992 A1).

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Regarding claim 6, Das discloses demodulating the first control channel (primary control channel) comprising an identity of at least one subscriber station (user information) and a number of control channels, demodulating the second control channel if the identity is identical to an identity of the subscriber station (through the MAC ID, paragraph [008]), and demodulating the traffic channel in accordance with said enabling information (paragraph [006]); wherein said demodulating a second control channel further comprises determining a position of the identity within the received first control channel, selecting a second control channel is accordance with said determined position, and demodulating said selected second control channel (fig.1; paragraphs [0016] and [0019]).

Regarding claim 12, Das discloses a method to generate a first control channel (primary control channel) comprising an identity of at least one subscriber station (user information) (paragraphs [006], [009] and [0015]). Das further discloses that many communication systems comply with standards require the use of more than one control channel per data channel, for example there are two control channels per data channel are used in CDMA communication systems that comply with CDMA200-1x-EV-DV (paragraph [006]). Das further teaches that the first (primary) control channel also comprises the information of second control channels (paragraph [009]). Das further teaches generating at least one second (secondary) control channel (paragraph [006]) comprising information enabling at least one subscriber (one user, one MAC ID) (paragraph (008): MAC ID, which identifies a user on the shared channel, sub-packet

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ID, ARQ ID, new packet indication which identifies the first sub-packet of a group of sub-packets being transmitted or acts to demarcate one group of sub-packets from another group) to demodulate (decode) a traffic channel (paragraph [0006]). Das further teaches transmitting the control channels, demodulating the received first control channel (primary control channel, paragraph [009]) determining an identity of at least one subscriber (user) station and a number of second control channels in accordance with said demodulated first control channel (paragraphs [006] and [009]), demodulating the second control channel comprising information enabling a subscriber (user) station to demodulate a traffic channel if the identity is identical to an identity of the subscriber station (through the MAC ID, paragraph [008]), and demodulating the traffic channel in accordance with said enabling information (paragraph [0061]). Das further teaches that when the first (primary) control channel information, the modulated (scrambled) second (secondary) control channel information and the user information are received, the information in the first (primary) control channel is retrieved (demodulated) such that the demodulating (descrambling) operation can be performed on the second (secondary) control and traffic (data) channels in accordance with the received (demodulated) primary control channel information and the defined scrambling scheme(paragraph [0019]); wherein said demodulating a second control channel further comprises determining a position of the identity within the received first control channel, selecting a second control channel is accordance with said determined position, and demodulating said selected second control channel (fig.1; paragraphs [0016] and [0019]).

Regarding claims 11,14 and 21, Das has been stated above in 102(e) rejection for claims 6 and 12. Das further discloses that the second (secondary) control channel comprising a number of sub-divisions and a starting sub-division of a unit of the traffic channel (a new packet indication which identifies the first sub-packet of a group of sub-packets being transmitted or acts to demarcate one group of sub-packets from another group; paragraph [008]).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7, 9, 13, 15, 16, 17, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Das et al. (U.S. Patent Application Publication No. 20020167992 A1) in view of Hsu et al. (U.S. Patent No. 6665309 B2).

Regarding claims 9, 13, 19 and 20, Das has been stated above in 102(e) rejection for claim 12. Das differs from the claimed invention in that Das does not disclose to determine the size of traffic channel unit and a number of code channels and demodulating the traffic channel unit. However, Hsu discloses that in IXTREME schemes, over one forward shared control channel, information, e.g., Walsh code

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assignment, etc. related to one, or more, forward shared channels is carried (col. 3, lines 41-43). Therefore, it would have been obvious for one of ordinary skill in the art at the time when the invention was made to include generating at lease one second control channel comprising a umber of code channels encoding a unit of the traffic channel as taught by Hsu in the assembly of Das in order to enable multiple users to access shared forward channels simultaneously.

Regarding claims 15 and 16, Das differs from the claimed invention in that Das does not disclose to include transmitting the first control channel at a power required by a subscriber station with the worst forward link quality metric for which the first channel is intended, and include transmitting the at least one second control channel at a power required by the at least one subscriber station for which the at least one second control channel is intended. However, it is well known in the art that reduced power consumption is very important in wireless communication. For example, Hsu teaches that only relative low- power signals need to be generated to effectuate communications between a mobile station and a base transceiver station (col. 2 lines 30-32). Therefore, it would have been obvious for one of ordinary skill in the art at the time when the invention was made to include transmitting the first control channel at a power required by a subscriber station with the worst forward link quality metric for which the first channels', and include transmitting the at least one second control channel at a power required by the at least one subscriber station for which the at least one second control

channel is intended as taught by Hsu in the assembly of Das in order to effective utilize the power.

Regarding claims 7 and 17, Das has been stated above in 102(e) rejection for claim 6 and 12. Das differs from the claimed invention in that Das does not disclose to demodulate a pre-determined control channel. However, Hsu discloses demodulating a pre-determined control channel (such as by way of a layer 3 message allocated thereto when the mobile station registers with the system, col. 7, lines 54-58, last line in col. 7 and lines 1-6 in col. 8).

Conclusion

4. **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lina Yang whose telephone number is (571)272-3151. The examiner can normally be reached Monday through Thursday between 8:00 a.m. and 7:00 p.m. eastern standard time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571)272-3155. The fax phone number for the organization where this application or proceeding is assigned is 517-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LY

ALPUS H. HSU PRIMARY EXAMINER

Alpan M. Dan